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book, the author has availed himself of the criticisms of other naturalists, and thus made a considerable number of changes in the stereotype plates. Several of the figures, notably that illustrating the anatomy of the cat, have been changed, and one of the opossum and its marsupial bone added. Other changes have been made in order to bring the book up to the present state of the science.

DAUBREE'S CHEMICAL GEOLOGY.<sup>1</sup>—This grand work may be regarded as a revised collected edition of the former smaller papers of M. Daubrée on experimental geology. It may be regarded as the great work of M. Daubrée's most laborious and successful scientific life, and on it he may safely rest his fame.

The first section of the work deals with chemical and physical phenomena—metalliferous deposits, nature of metamorphism, the effect of heated waters, formation of zeolites, amygdaloids, rocks both eruptive and metamorphic, and volcanic action.

The second section treats of mechanical phenomena, and applies the rigid experimental method of trituration and transportation of sediments, and chemical decompositions by mechanical forces; the distribution of gold in the bed of the Rhine is also discussed. The first chapter contains an account of the experiments on the striation of rocks. The marks or striæ are produced or imitated by rubbing pebbles together. The second chapter treats of the deformations which the earth's crust has been subjected to in former ways. Sir James Hall's experiments were of a similar character. The remarkable examples of reversed folds, as shown in the Alpine regions, are imitated and explained. The discussion of the nature and causes of faults, joints and all kinds of fractures in sedimentary rocks will be read by the geologist with peculiar interest. The account of the experiments on the heat developed by the crushing, grinding and mutual frictions of rocks are important; it is believed that sufficient heat may be generated in this way to produce metamorphism.

The second part treats altogether of cosmic bodies. Three hundred and fifty pages are devoted to the experimental study of the structure and genesis of meteorites and the accompanying minerals. The entire volume is well illustrated, and as a specimen of typography may be regarded as a model of clearness and beauty.—*F. V. H.*

HERTWIG'S CHÆTOGNATH WORMS.<sup>2</sup>—A careful elaboration of the morphology and development of the Sagitta, the type of the Chætognathi, that singular type of worms, so aberrant that it has

<sup>1</sup> *Etudes Synthétiques de Géologie Expérimentale*. Par A. Daubrée. Première partie—Application de la méthode expérimentale à l'étude de divers phénomènes géologiques. Deuxième partie—Application de la méthode expérimentale à l'étude de divers phénomènes cosmologiques. Large 8vo, 828 pages.

<sup>2</sup> *Die Chætognathen. Ihre Anatomie, Systematik und Entwicklungsgeschichte*. Eine Monographie. Von Dr. OSCAR HERTWIG. Mit 6 Tafeln. Jena, 1880. 8vo, pp. 112.